FIGURE 1

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bitterbush_[SIN_2]        MEEPK---------------------------------KHISQADLAKHKQPGDLWISIKGKVYDISKW
soybean_[SIN_8]           M-------------------EVVEKEK-----KYITSEELKGHNKEGDLWISIQGKVYNVSDW
borage_[gi_2062403]       MA-------A---------QIK----KYITSDELKNHDKPGDLWISIQGKAYDVSDW
corn_[SIN_4]              MP-------------PSVDAMPAPGDAAGAGDVRMISSKELRAHASADDLWISISGDVYDVTPW
wheat_[SIN_10]            MARTGLADATAPEADAMPAASK--DAADVRMISTKELQAHAAADDLWISISGDVYDVTPW
wheat_[gi_4104056]        MARTGLADATAPEADAMPAASK--DAADVRMISTKELQAHAAADDLWISISGDVYDVTPW
soybean_[SIN_6]           LP-------A-----
sunflower_[gi_1040729]    MV----------SPSIEVLNSIADGK-----KYITSKELKKHNNPNDLWISILGKVYNVTEW


bitterbush_[SIN_2]        TKEHPGGELPLLSFAGQDVTDAFIAYHPGTAWQYLDRFFTGYYVQDYSVSEMSKDYRRLV
soybean_[SIN_8]           VKEHPGGDVPISNLAGQDVTDAFIAYHPGTAWSHLEKFFTGYHLSDFKVSEVSKDYRKLA
borage_[gi_2062403]       VKDHPGGSFPLKSLAGQEVTDAFVAFHPASTWKNLDKFFTGYYLKDYSVSEVSKDYRKLV
corn_[SIN_4]              LPHHPGGDLPLLTLAGQDATDAFAAYHPPSARPLLRRFFVG-RLSDYAVSPASADYRRLL
wheat_[SIN_10]            LRHHPGGEVPLITLAGQDATDAFMAYHPPSVRPLLRRFFVG-RLSDYTVPPASADFRRLL
wheat_[gi_4104056]        LRHHPGGEVPLITLAGQDATDAFMAYHPPSVRPLLRRFFVG-RLTDYTVPPASADFRRLL
soybean_[SIN_6]           --------------------------------FSTSHRLSDHTVSAASSDYRKLF
sunflower_[gi_1040729]    AKEHPGGDAPLINLAGQDVTDAFIAFHPGTAWKHLDKLFTGYHLKDYQVSDISRDYRKLA


bitterbush_[SIN_2]        SEFSKMGLFKTPGKGVYCSIFFVSVLFALSVYGVLYCKSTWAHLCSGLLMGMLWLQSGWV
soybean_[SIN_8]           SEFSKLGLFDTKGHVTSCTLASVAVMFLIVLYGVLRCTSVWAHLGSGMLLGLLWMQSAYV
borage_[gi_2062403]       FEFSKMGLYDKKGHIMFATLCFIAMLFAMSVYGVLFCEGVLVHLFSGCLMGFLWIQSGWI
corn_[SIN_4]              AQLSSAGLFERVGPTPKVQLVMAVLFYAALYLVLACASAWAHLLAGGLIGFVWIQSGWM
wheat_[SIN_10]            AQLSSAGLFERVGHTPKFLLVAMSVLFCIALYCVLACSSTGAHMFAGGLIGFIWIQSGWI
wheat_[gi_4104056]        AQLSSAGLFERVGHTPKFLLVAMSVLFCIALYCVLACSSTGAHMFAGGLIGFIWIQSGWI
soybean_[SIN_6]           SDLSALNLFNRKGHTTSILLSLILTLFPLSVCGVLFSDSTFVHVLSAALIGFLWIQSGWI
sunflower_[gi_1040729]    SEFAKAGMFEKKGHGVIYSLCFVSLLLSACVYGVLYSGSFWIHMLSGAILGLAWMQIAYL
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FIGURE 1

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bitterbush_[SIN_2]        GHDSCHYQVMPNRKLNRLFQIIAGNVIAGVSVAWWKLDHNTHHFACNSANLDPDIQHLPI
soybean_[SIN_8]           GHDSGHYVVMTTNGFNKVAQILSGNCLTGISIAWWKWTHNAHHIACNSLDHDPDLQHMPV
borage_[gi_2062403]       GHDAGHYMVVSDSRLNKFMGIFAANCLSGISIGWWKWNHNAHHIACNSLEYDPDLQYIPF
corn_[SIN_4]              GHDSGHHRITGHPVLDRVVQVLSGNCLTGLSIAWWKCNHNTHHIACNSLDHDPDLQHMPL
wheat_[SIN_10]            GHDSGHHQITRHPALNRLLQVVSGNCLTGLGIAWWKFNHNTHHISCNSLDHDPDLQHLPL
wheat_[gi_4104056]        GHDSGHHQITRHPALNRLLQVVSGNCLTGLGIAWWKFNHNTHHISCNSLDHDPDLQHLPL
soybean_[SIN_6]           GHDSGHYNVMLSRRLNRAIQILSGNILAGISIGWWKWNHNAHHIACNSLDYDPDLQHMPV
sunflower_[gi_1040729]    GHDAGHYQMMATRGWNKFAGIFIGNCITGISIAWWKWTHNAHHIACNSLDYDPDLQHLPM

bitterbush_[SIN_2]        IAISPKFENSLTSYYHNCKMTYDRAARFFVSFQHWTFYPALLSVRLYLFILSFKVVFSNN
soybean_[SIN_8]           FAVSSRFFNSITSHFYGRKLEFDEIARFLICYQHFTFYPVMCVARVNLYLQTILLLFSR-
borage_[gi_2062403]       LVVSSKFFGSLTSHFYEKRLTFDSLSRFFVSYQHWTFYPIMCAARLNMYVQSLIMLLTK-
corn_[SIN_4]              FAVSPKLFGNIWSYFYQRTLAFDAASKFFISYQHWTFYPVMCIARINLLAQSALFVLTE-
wheat_[SIN_10]            FAVSTKLFNNLWSVCYERTLAFDAISKFFVSYQHWTFYPVMGFARINLLVQSIVFLITQ-
wheat_[gi_4104056]        FAVSTKLFNNLWSVCYERTLAFDAISKFFVSYQHWTFYPVMGFARINLLVQSIVFLITQ-
soybean_[SIN_6]           FAVSSRFFNSITSHXYGRKXEFDXIAXFLICYQHFTFYPVMCVARVNLYLQTILLLFSR-
sunflower_[gi_1040729]    LAVSSKLFNSITSVFYGRQLTFDPLARFFVSYQHYLYYPIMCVARVNLYLQTILLLISK-

bitterbush_[SIN_2]        KRVYKRSQEILGYAAFLTWYSLLLSRLPNWPERVMYFTSCLAVAGFQHWQFSLNHFASNV
soybean_[SIN_8]           RKVQDRALNIMGILVFWTWFPLLVSCLPNWPERVMFVLASFAVCSIQHIQFCLNHFAANV
borage_[gi_2062403]       RNVSYRAHELLGCLVFSIWYPLLVSCLPNWGERIMFVIASLSVTGMQQVQFSLNHFSSSV
corn_[SIN_4]              KRVPQRLLEIAGVATFWANYPLLVASLPNWWERVAFVLFSFTICGIQHVQFCLNHFSSDV
wheat_[SIN_10]            KKVRQRWLEIAGVAAFWVWYPLLVSCLPNWWERVAFVLASFVITGIQHVQFCLNHFSSAV
wheat_[gi_4104056]        KKVRQRWLEIAGVAAFWVWYPLLVSCLPNWWERVAFVLASFVITGIQHVQFCLNHFSSAV
soybean_[SIN_6]           XKVQDRALNIMGILVFWTWFLFLLA------LLFV------PIQHIQFWLNHLAENL
sunflower_[gi_1040729]    RKIPDRGLNILGTLIFWTWFPLLVSRLPNWPERVAFVLVSFCVTGIQHIQFTLNHFSGDV
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FIGURE 1

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bitterbush_[SIN_2]        YTGLPSGNDWFHQQTKGTLNITASAWWDWFHGGLHFQIEHHLFPRMPKCHFRKISPIVNK
soybean_[SIN_8]           YVGPPSGNDWFEKQTSGTLDISCASSMDWFFGGLQFQLEHHLFPRLPRCQLRKISPLVSD
borage_[gi_2062403]       YVGKPKGNNWFEKQTDGTLDISCPPWMDWFHGGLQFQIEHHLFPKMPRCNLRKISPYVIE
corn_[SIN_4]              YVGPPKGNDWFEKQTAGTLDILCSPWMDWFHGGLQFQIEHHLFPRLPRCHLRKVAPAVRD
wheat_[SIN_10]            YVGPPKGNDWFERQTAGTLDIKCSPWMDWFHGGLQFQVEHHLFPRLPRCHYRMVAPIVRD
wheat_[gi_4104056]        YVGPPKGNDWFERQTAGTLDIKCSPWMDWFHGGLQFQVEHHLFPRLPRCHYRMVAPIVRD
soybean_[SIN_6]           YXG---------------------------------------------------------
sunflower_[gi_1040729]    YVGPPKGDNWFEKQTRGTIDIACSSWMDWFFGGLQFQLEHHLFPRLPRCHLRSISPICRE


bitterbush_[SIN_2]        LCQKHNLSYETATMWEANKMVYSTLRAVAMEAKDVTK-PVPKNMVWEAMNTFG
soybean_[SIN_8]           LCKKHNLPYRSLSFWEANQWTIRTLRTAALQARDLTN-PAPKNLLWEAVNTHG
borage_[gi_2062403]       LCKKHNLPYNYASFSKANEMTLRTLRNTALQARDITK-PLPKNLVWEALHTHG
corn_[SIN_4]              LCKKHGLTYSAATFWGANVLTWKTLRAAALQARTATSGGAPKNLVWEAVNTHG
wheat_[SIN_10]            LCKKHGLSYGAATFWEANVMTWKTLRAAALQAREATTGAAPKNLVWEALNTHG
wheat_[gi_4104056]        LCKKHGLSYGAATFWEANVMTWKTLRAAALQAREATTGAAPKNLVWEALNTHG
soybean_[SIN_6]           ------------------------------------------------------
sunflower_[gi_1040729]    LCKKYNLPYVSLSFYDANVTTLKTLRTAALQARDLTN-PAPQNLAWEAFNTHG
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